

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Peter Mahr

Filed : Herewith 09/486,512For : FAST AND PRECISE POSITIONING OF A READING  
AND/OR WRITING HEAD IN A DATA PLAYER  
AND/OR RECORDER3/a  
MDJ  
J.27.02PRELIMINARY AMENDMENT

Hon. Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In the US national phase application of PCT/EP99/04280 filed herewith, please enter the following amendments.

IN THE CLAIMS:

Please amend the claims as follows:

IN THE CLAIMS:

1.(AMENDED) A data scanning device in which a scanning head is positioned relatively to a data medium comprising

- a driving mechanism which allows to move the data scanning head in steps,
- a monitoring device which allows to measure an instantaneous position of the scanning head with at least a precision corresponding to a movement of one step,
- a power regulating device which outputs energy to the driving mechanism, an amount of power being increased until the driving mechanism moves the data reading and/or writing head by one step, and the amount of power being reduced afterwards.

2.(AMENDED) A data scanning device according to claim 1, wherein the monitoring device comprises an encoder which delivers a fixed number of encoder signals for each step by which the data scanning head moves.

3.(AMENDED) A data scanning device according to claim 1, wherein the desirable head speed is proportional to a square root of a remaining distance separating the data scanning head from a determined final position.